

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A computer program product tangibly embodied in a computer-readable medium, the computer program product comprising instructions operable to cause data processing apparatus to assist in development of user interfaces:

enabling a user to lay out one or more views for a user interface including allowing the user to select one or more user interface elements from a set of user interface elements for each of the one or more views;

receiving user input specifying a view composition, the view composition comprising a set of views, each view in the set of views comprising a layout of the one or more user interface elements selected from [[a]] the set of user interface elements, the view composition further comprising the layout of the views for the user interface and at least one navigation link, each navigation link specifying a transition from a first view in the set of views to a second view in the set of views, wherein each navigation link comprises an association between an exit point in the first view and an entry point in the second view; and

storing the view composition in a repository such that a rendering program uses the view composition to display the user interface.

2. (Original) The computer program product of claim 1, wherein the set of user interface elements comprises one or more of input user interface elements, view user interface elements, and container user interface elements.

3. (Previously Presented) The computer program product of claim 1, wherein the instructions further comprise receiving further user input, the further user input specifying one or more property settings for at least one of the one or more user interface elements.

4. (Canceled).

5. (Previously Presented) The computer program product of claim 1, wherein the exit point comprises a definition of an event that can be raised in order to trigger the navigation link, and the entry point comprises an event handler corresponding to the event.

6. (Previously Presented) The computer program product of claim 1, wherein the enabling a user to lay out comprises enabling a user to use a pre-defined layout.

7. (Previously Presented) The computer program product of claim 1, wherein the enabling a user to lay out comprises enabling a user to nest one or more views from the set of views inside an enclosing view from the set of views.

8. (Previously Presented) The computer program product of claim 7, wherein the enabling a user to nest comprises enabling a user to associate the one or more views with a view container user interface element in the enclosing view.

9. (Previously Presented) The computer program product of claim 7, wherein the enabling a user to nest comprises enabling a user to associate the one or more views with a pre-defined set of view areas in the enclosing view.

10. (Previously Presented) The computer program product of claim 1, wherein the enabling a user to lay out comprises enabling a user to specify a view area for displaying at most one view at a time, and to associate the view area with two or more views from the set of views.

11. (Original) The computer program product of claim 10, wherein one of the two or more views is designated as a default view to display in the view area.

12. (Previously Presented) The computer program product of claim 1, wherein the instructions further comprise associating the view composition with a reusable component.

13. (Original) The computer program product of claim 12, wherein at least one of the views in the set of views is defined in a second, distinct view composition associated with a second, distinct reusable component.

14. (Original) The computer program product of claim 1, wherein the user input is provided by a user through interface controls provided in at least one graphical user interface.

15. (Previously Presented) The computer program product of claim 1, wherein the instructions-further comprise generating an XML representation of the view composition, and wherein storing the view composition in the repository comprises storing the XML representation of the view composition in the repository.

16. (Currently Amended) A computer program product tangibly embodied in a computer-readable medium, the computer program product comprising instructions operable to cause data processing apparatus to assist in execution of an application:

enabling a user to lay out one or more views from a set of views for a user interface including allowing the user to select one or more user interface elements from a set of user interface elements for each of the one or more views;

generating the user interface comprising the layout, the layout and the set of views being specified in a view composition, each view in the set of views comprising a layout of the one or more user interface elements selected from [[a]] the set of user interface elements; and

modifying the user interface based on at least one navigation link specified in the view composition, wherein each navigation link associates a first view in the set of views with a second view in the set of views, and wherein each navigation link comprises an association between an exit point in the first view and an entry point in the second view.

17. (Original) The computer program product of claim 16, wherein modifying the user interface comprises invoking an event handler implemented in an entry point associated with the second view.

18. (Original) The computer program product of claim 16, wherein modifying the user interface comprises displaying the second view in the user interface.

19. (Original) The computer program product of claim 16, wherein:
the layout of the one or more views comprises a specification of a view area for displaying at most one view at a time, and an association between the view area and the first and second views; and

modifying the user interface comprises displaying the second view in the view area and hiding the first view.

20. (Original) The computer program product of claim 18, wherein:
the layout of the one or more views comprises a nesting of the second view inside an enclosing view in the set of views; and

modifying the user interface further comprises displaying the enclosing view in the user interface.

21. (Original) The computer program product of claim 20, wherein displaying the enclosing view comprises displaying a third view contained in the enclosing view.

22. (Original) The computer program product of claim 16, wherein the instructions are further operable to cause the data processing apparatus to modify the view composition.

23. (Original) The computer program product of claim 22, wherein modifying the view composition comprises:

specifying a new view; and

specifying a new navigation link between the new view and one of the views in the set of views.

24. (Original) The computer program product of claim 23, wherein the view composition is associated with a reusable component, and wherein the new view is defined in a second, distinct view composition associated with a second, distinct reusable component.

25. - 27. (Canceled).

28. (Currently Amended) A computer-implemented method for developing user interfaces, the method comprising:

enabling a user to lay out one or more views for a user interface including allowing the user to select one or more user interface elements from a set of user interface elements for each of the one or more views;

receiving user input specifying a view composition, the view composition comprising a set of views, each view in the set of views comprising a layout of the one or more user interface elements selected from [[a]] the set of user interface elements, the view composition further comprising the layout of the views for the user interface and at least one navigation link, each navigation link specifying a transition from a first view in the set of views to a second view in the set of views, wherein each navigation link comprises an association between an exit point in the first view and an entry point in the second view; and

storing the view composition in a repository such that a rendering program uses the view composition to displaying the user interface.

29. (Currently Amended) An apparatus for assisting in development of user interfaces, the apparatus comprising:

a processor; and

means, connected to the processor, for enabling a user to lay out one or more views for a user interface including allowing the user to select one or more user interface elements from a set of user interface elements for each of the one or more views;

means for receiving user input specifying a view composition, the view composition comprising a set of views, each view in the set of views comprising a layout of the one or more user interface elements selected from [[a]] the set of user interface elements, the view composition further comprising the layout of the views for the user interface and at least one navigation link, each navigation link specifying a transition from a first view in the set of views to a second view in the set of views, wherein each navigation link comprises an association between an exit point in the first view and an entry point in the second view; and

means for storing the view composition in a repository such that a rendering program uses the view composition to display the user interface.

30. (Currently Amended) A computer-implemented method for assisting in execution of an application, the method comprising:

enabling a user to lay out one or more views from a set of views for a user interface including allowing the user to select one or more user interface elements from a set of user interface elements for each of the one or more views;

generating the user interface comprising the layout, the layout and the set of views being specified in a view composition, each view in the set of views comprising a layout of the one or more user interface elements selected from [[a]] the set of user interface elements; and

modifying the user interface based on at least one navigation link specified in the view composition, wherein each navigation link associates a first view in the set of views with a second view in the set of views, wherein each navigation link comprises an association between an exit point in the first view and an entry point in the second view.

31. (Currently Amended) An apparatus comprising:

a processor; and

means, connected to the processor, for enabling a user to lay out one or more views from a set of views for a user interface including allowing the user to select one or more user interface elements from a set of user interface elements for each of the one or more views;

means for generating the user interface comprising the layout, the layout and the set of views being specified in a view composition, each view in the set of views comprising a layout of the one or more user interface elements selected from ~~[[a]]~~ the set of user interface elements; and

means for modifying the user interface based on at least one navigation link specified in the view composition, wherein each navigation link associates a first view in the set of views with a second view in the set of views, wherein each navigation link comprises an association between an exit point in the first view and an entry point in the second view.